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1048 U.S. PTO03-15-01  
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Attorney Docket No.: 901033-1005

PATENT

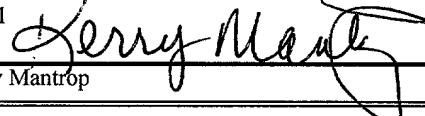
APPLICATION FOR U.S. PATENT  
TRANSMITTAL FORM1033 U.S.P.T.O.  
09/008299  
03/14/01

Express Mail No.: EL646653671US

Date of Deposit: March 14, 2001

I certify that the accompanying paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to BOX: PATENT APPLICATION, Commissioner for Patents, Washington, DC 20231

Kerry Mantrop



## BOX: PATENT APPLICATION

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): Qi Xu, Ph.D., Tao Qi, Ph.D., Jeffrey C. Measamer  
For: VORTEX-INDUCED VIBRATION REDUCTION DEVICE FOR FLUID IMMERSED CYLINDERS  
Enclosed are: 17 Sheet(s) of informal drawings;  
23 pages of Specification;  
8 pages of Claims; and  
1 page of Abstract.

A Declaration of Qi Xu, Ph.D., Tao Qi, Ph.D., Jeffrey C. Measamer is enclosed.

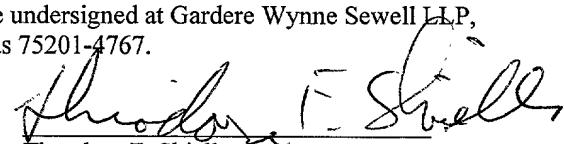
An Assignment is enclosed, along with payment for the recording fee.

A check in the amount of \$1,236.00 is enclosed in payment of the filing fee and fee for recording of the assignment.

FEE CALCULATION					FEE
	NUMBER		NUMBER EXTRA	RATE	BASIC FEE \$ 710.00
Total Claims	47	-20 =	27	x\$18 =	\$ 486.00
Independent Claims	3	- 3 =	0	x\$ 40=	\$0
<b>Total Filing Fee</b>					<b>\$ 1,196.00</b>

All correspondence related to this application may be addressed to the undersigned at Gardere Wynne Sewell LLP, 3000 Thanksgiving Tower, 1601 Elm Street, Suite 3000, Dallas, Texas 75201-4767.

March 14, 2001  
Date



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